

Recombinant Human TWIST1 Protein

Cat. No. TWIST1-6521H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TWIST1 protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Acts as a transcriptional regulator. Inhibits myogenesis by sequestering E proteins, inhibiting trans-activation by MEF2, and inhibiting DNA-binding by MYOD1 through physical interaction. This interaction probably involves the basic domains of both proteins. Also represses expression of proinflammatory cytokines such as TNFA and IL1B. Regulates cranial suture patterning and fusion. Activates transcription as a heterodimer with E proteins. Regulates gene expression differentially, depending on dimer composition. Homodimers induce expression of FGFR2 and POSTN while heterodimers repress FGFR2 and POSTN expression and induce THBS1 expression. Heterodimerization is also required for osteoblast differentiation. Represses the activity of the circadian transcriptional activator: NPAS2-ARNTL/BMAL1 heterodimer.
Form	Lyophilized powder/frozen liquid
Purity	> 90 % as determined by SDS-PAGE
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the

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date of receipt.

Storage Buffer Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.

Reconstitution Reconstitute in sterile water for a stock solution.

Shipping They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name [TWIST1 twist homolog 1 \(Drosophila\) \[Homo sapiens \(human\) \]](#)

Official Symbol [TWIST1](#)

Synonyms TWIST1; twist homolog 1 (Drosophila); acrocephalosyndactyly 3, ACS3, blepharophimosis, epicanthus inversus and ptosis 3, BPES3, TWIST; twist-related protein 1; bHLHa38; BPES2; H twist; Saethre Chotzen syndrome; SCS; H-twist; B-HLH DNA binding protein; TWIST homolog of drosophila; class A basic helix-loop-helix protein 38; ACS3; CRS1; BPES3; TWIST;

Gene ID [7291](#)

mRNA Refseq [NM_000474](#)

Protein Refseq [NP_000465](#)

MIM [601622](#)

UniProt ID [Q15672](#)

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